

CLAIMS:

1. (Original) A method for operating a multi-mode mobile station, wherein at least two modes operate within at least one common range of frequencies, comprising:

transmitting a signal from a first antenna circuit of the mobile station in the common range of frequencies; and

electronically detuning a second antenna circuit of the mobile station such that the second antenna circuit is mis-matched to the first antenna circuit so as to reduce coupling of the transmitted signal from the first antenna circuit into the second antenna circuit.

2. (Original) A method as in claim 1, wherein the common range of frequencies comprises 1900MHz.

3. (Original) A method as in claim 1, wherein the common range of frequencies comprises 850MHz.

4. (Original) A method as in claim 1, wherein the step of detuning comprises varying an impedance of at least one component that forms a part of the second antenna circuit.

5. (Original) A method as in claim 4, wherein the at least one component is comprised of a stripline.

6. (Original) A method as in claim 4, wherein the at least one component is comprised of a PIN diode.

7. (Original) A method as in claim 4, wherein the at least one component is comprised of a variable capacitance.
8. (Original) A method as in claim 4, wherein the at least one component is comprised of a FET diode.
9. (Original) A method as in claim 3, wherein the at least one component is comprised of an active component that is put into a passive state.
10. (Original) A method as in claim 1, wherein the step of detuning comprises operating at least one switch for adding a length of strip line to, or for subtracting a length of strip line from, the second antenna circuit.
11. (Original) A method as in claim 1, wherein the step of detuning comprises operating at least one switch for connecting a length of strip line to ground, or for disconnecting a length of strip line from ground.
12. (Original) A multi-mode mobile station, wherein at least two modes operate within at least one common range of frequencies, comprising:

for each mode, a transmitter circuit comprising an antenna circuit that operates in the common range of frequencies; and

a controller, responsive to a first one of said transmitter circuits transmitting, for electronically detuning a second antenna circuit of the mobile station such that the second antenna circuit is mis-matched to the first antenna circuit so as to reduce coupling of the transmitted signal from the first antenna circuit into the second antenna circuit.

13. (Original) A multi-mode mobile station as in claim 12, wherein the common range of frequencies comprises 1900MHz.

14. (Original) A multi-mode mobile station as in claim 12, wherein the common range of frequencies comprises 850MHz.

15. (Original) A multi-mode mobile station as in claim 12, wherein the controller, when detuning, varies an impedance of at least one component that forms a part of the second antenna circuit.

16. (Original) A multi-mode mobile station as in claim 15, wherein the at least one component is comprised of a stripline.

17. (Original) A multi-mode mobile station as in claim 15, wherein the at least one component is comprised of a PIN diode.

18. (Original) A multi-mode mobile station as in claim 15, wherein the at least one component is comprised of a variable capacitance.

19. (Original) A multi-mode mobile station as in claim 15, wherein the at least one component is comprised of a FET diode.

20. (Original) A multi-mode mobile station as in claim 15, wherein the at least one component is comprised of an active component that is put into a passive state.

21. (Original) A multi-mode mobile station as in claim 12, wherein the controller, when detuning, operates at least one switch for adding a length of strip line to, or subtracting a length of strip line from, the second antenna circuit.

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22. (Original) A multi-mode mobile station as in claim 12, wherein the controller, when detuning, operates at least one switch for connecting a length of strip line to ground, or for disconnecting a length of strip line from ground.